

APPENDIX  
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22. A method for producing a plant having a phenotype characterized by an increased production of pelargonidin derivatives comprising the steps of:
- (i) isolating a first nucleic acid according to SEQ ID NO: 1 encoding a dihydroflavanol-4-reductase;
  - (ii) carrying out site specific mutagenesis on said first nucleic acid to produce a second nucleic acid wherein the codon for the Asn residue at position 134 has been mutated to a codon for Leu.
  - (iii) introducing said second nucleic acid into a vector wherein said second nucleic acid is operably linked to a promoter;
  - (iv) transforming a plant cell with said vector;
  - (v) regenerating the plants from one or more of said transformed plant cells;
  - (vi) selecting a plant with the desired phenotype.
23. A method as recited in claim 1 wherein said first nucleic acid is from *Gerbera*.
23. A method as recited in claim 1 wherein said promoter is a cauliflower mosaic virus promoter.
24. A method as recited in claim 1 wherein said promoter is an inducible promoter.
25. A method as recited in claim 1 wherein said promoter is a tissue specific promoter.